

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/849,794	05/04/2001	Susie J. Wee	10014738-1 8836			
7	7590 11/18/2004	EXAMINER				
HEWLETT-I	PACKARD COMPAI	HOFFMAN, BRANDON S				
Intellectual Pro	perty Administration			<u> </u>		
P.O. Box 2724	Ô0	•	ART UNIT	PAPER NUMBER		
Fort Collins, C	CO 80527-2400	2136				

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	Application No. Applicant(s)						
		09/849,79	4	WEE ET AL.					
Office Action Summary			Examiner		Art Unit				
			Brandon H		2136				
Period fo	The MAILING DATE of this communi or Reply	ication app	ears on the	cover sheet with the co	orrespondence ad	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)[Responsive to communication(s) file	d on <i>09 Au</i>	ugust 2004.						
	Responsive to communication(s) filed on <u>09 August 2004</u> . This action is FINAL . 2b)⊠ This action is non-final.								
3)									
Disposition of Claims									
4)⊠	Claim(s) <u>1-49</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-49</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□									
Applicati	on Papers								
9)[The specification is objected to by the	e Examine	r.						
10)	The drawing(s) filed on is/are:	a) acce	epted or b)[\square objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
	Replacement drawing sheet(s) including	the correcti	ion is require	ed if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Ex	aminer. No	te the attached Office	Action or form P	TO-152.			
Priority under 35 U.S.C. §§ 119 and 120									
 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Copies of the certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 									
	Acknowledgment is made of a claim for								
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.									
Attachment(s)									
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449) P		·	4) Interview Summary 5) Notice of Informal P 6) Other:					
	•	—							

DETAILED ACTION

1. Claims 1-49 are pending in this office action, claims 8 and 28 are amended.

2. Applicant's arguments, see page 13-15, filed August 9, 2004, with respect to the rejection(s)of claim(s) 1-49 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Nakagawa et al. in view of Perlman et al.

Rejections

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

Claim Rejections - 35 USC § 103

4. <u>Claims 1-8, 12-28, and 32-49</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Nakagawa et al.</u> (U.S. Patent No. 6,810,131) in view of <u>Perlman et al.</u> (U.S. Patent No. 6,055,316).

Regarding <u>claims 1, 13, and 21, Nakagawa et al.</u> teaches a secure and scalable encoding method/system for encoding data, said secure and scalable encoding system comprised of:

Art Unit: 2136

- A segmenter, said segmenter adapted to receive data and segment said data into corresponding regions (fig. 15, ref. num 1100 and 1200);
- A scalable encoder coupled to said segmenter, said scalable encoder adapted to encode at least one of said regions into scalable data (fig. 19, encoding side);
- An encrypter, said encrypter adapted to encrypt said scalable data to produce encrypted scalable data (fig. 15, ref. num 1108); and
- A packetizer coupled to said progressive encrypter, said packetizer adapted to packetize said progressively encrypted scalable data (fig. 19, ref. num 1302).

Nakagawa et al. does not teach the encrypter is a progressive encrypter.

<u>Perlman et al.</u> teaches the encrypter is a progressive encrypter (fig. 2 and col. 6, lines 26-60).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine a progressive encrypter, as taught by <u>Perlman et al.</u>, to the method/system of <u>Nakagawa et al.</u> It would have been obvious for such modifications because content providers want to be able to provide at least some content to everyone, even if they are not going to pay for the full version. This way, the content provider can send low quality "previews" to a larger viewing audience (see col. 1, line 66 through col. 2, line 12 of Nakagawa et al.).

Art Unit: 2136

Regarding <u>claims 2, 14, and 22</u>, the combination of <u>Nakagawa et al./Perlman et al.</u> teaches wherein said data is comprised of video frame data (see col. 16, lines 28-30 of Nakagawa et al.).

Regarding <u>claims 3, 15, 16, and 23</u>, the combination of <u>Nakagawa et al./Perlman et al.</u> teaches further comprising a video prediction unit coupled to said segmenter, said video prediction unit adapted to generate prediction error video data and provide said prediction error data to said segmenter (col. 17, lines 61-66).

Regarding claims 4, 17, and 24, the combination of Nakagawa et al./Perlman et al. teaches wherein said scalable encoder is further adapted to encode said at least one of said regions into said scalable data and into header data wherein said header data provides information corresponding to said scalable data (see col. 16, lines 17-27 of Nakagawa et al.).

Regarding <u>claims 5, 18, and 25</u>, the combination of <u>Nakagawa et al./Perlman et al.</u> teaches wherein said progressive encrypter is further adapted to encrypt said header data to provide encrypted header data (see col. 16, lines 17-27 of Nakagawa et al.).

Regarding <u>claims 6, 19, and 26</u>, the combination of <u>Nakagawa et al./Perlman et</u> al. teaches wherein said packetizer is further adapted to packetize said progressively

Art Unit: 2136

encrypted scalable data and said header data (see col. 17, lines 17-22 of Nakagawa et al.).

Regarding claims 7, 20, and 27, the combination of Nakagawa et al./Perlman et al. teaches wherein said packetizer is further adapted to packetize said progressively encrypted scalable data and said encrypted header data (see col. 17, lines 17-22 of Nakagawa et al.).

Regarding claims 8 and 28, the combination of Nakagawa et al./Perlman et al. teaches wherein said data is selected from the group consisting of: video data, audio data, image data, graphic data, and web page data (see col. 2, lines 42-45 of Nakagawa et al.).

Regarding <u>claims 12 and 32</u>, the combination of <u>Nakagawa et al./Perlman et al.</u> teaches steps b) through e) for only a portion of said data received at step a) (see fig. 15, ref. num 6000 of Nakagawa et al., only a base layer has to be processed for non-paying viewers).

Regarding <u>claims 33, 39, and 44, Nakagawa et al.</u> teaches a decoding system for decoding data encoded using a secure and scalable encoding system, said decoding system comprised of:

Art Unit: 2136

 A decrypter, said decrypter adapted to receive a packet containing encrypted and scalably encoded data and decrypt said packet to provide scalably encoded regions (fig. 17, ref. num 2001);

- A decoder coupled to said decrypter, said decoder adapted to decode said scalably encoded regions to provide decoded regions (fig. 19, decoding side);
 and
- An assembler coupled to said decoder, said assembler adapted to assemble said decoded regions to provide data (fig. 17, ref. num 2302).

Nakagawa et al. does not teach decrypting progressively encrypted data.

Perlman et al. teaches the decrypting progressively encrypted data (fig. 3 and col. 6, lines 26-60).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine a decrypter, as taught by Perlman et al., to the method/system of Nakagawa et al. It would have been obvious for such modifications because content providers want to be able to provide at least some content to everyone, even if they are not going to pay for the full version. This way, the content provider can send low quality "previews" to a larger viewing audience (see col. 1, line 66 through col. 2, line 12 of Nakagawa et al.).

Art Unit: 2136

Regarding claims 34, 40, and 45, the combination of Nakagawa et al./Perlman et al. teaches said decrypter is further adapted to receive a packet containing said progressively encrypted and scalably encoded data and also including unencrypted header data wherein said unencrypted header data provides information corresponding to said scalably encoded data (see fig. 4B of Perlman et al.).

Regarding claims 35, 36, 41, 46, and 47, the combination of Nakagawa et al./Perlman et al. teaches wherein said decrypter is further adapted to receive a packet containing said progressively encrypted and scalably encoded data and also including encrypted header data wherein said encrypted header data provides information corresponding to said scalably encoded data, said decrypter further adapted to decrypt said encrypted header (see fig. 4B of Perlman et al.).

Regarding <u>claims 37, 42, and 48,</u> the combination of <u>Nakagawa et al./Perlman et al.</u> teaches wherein said assembler is further adapted to assemble said decoded regions to provide video frame data (see col. 20, lines 53-59 of Nakagawa et al.).

Regarding <u>claims 38, 43, and 49,</u> the combination of <u>Nakagawa et al./Perlman et al.</u> teaches wherein said assembler is further adapted to assemble said decoded regions to provide prediction error video data for use by a video prediction unit (see col. 20, lines 14-19 of Nakagawa et al.).

Art Unit: 2136

Claims 9-11 and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakagawa et al. (USPN '883) as modified by Perlman et al. (USPN '316) and further in view of Van der Auwera et al. (U.S. Patent No. 6,532,265).

Regarding claims 9-11 and 29-31, the combination of Nakagawa et al./Perlman et al. teaches all the limitations of claims 1 and 21, respectively, above. However,

Nakagawa et al./Perlman et al. does not teach segmenting said data into corresponding rectangular regions, non-rectangular regions, and overlapping regions.

<u>Van der Auwera et al.</u> teaches segmenting said data into corresponding rectangular regions, non-rectangular regions, and overlapping regions (col. 2, lines 20-28).

It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to combine segmenting the data into rectangular, non-rectangular, and overlapping regions, as taught by <u>Van der Auwera et al.</u>, to the method/system of <u>Nakagawa et al./Perlman et al.</u> It would have been obvious for such modifications because the segments being divided into different regions allows smaller segmenting values for easier encoding and the realization of a real-time system.

Art Unit: 2136

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon Hoffman whose telephone number is 571-272-3863. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

вн

Branda Toleh

EMMANUELL. MOISE